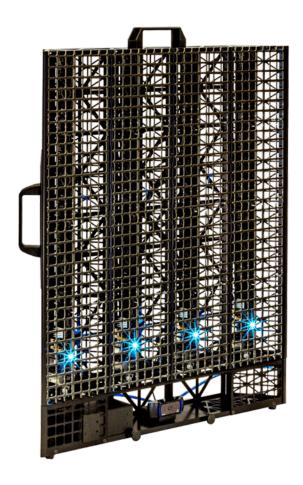


SORAMA CAM1K Specification sheet





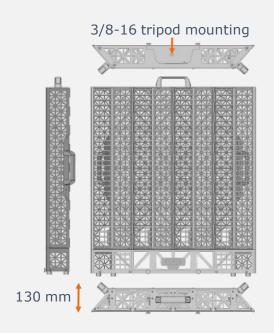
## **SORAMA CAM1K**

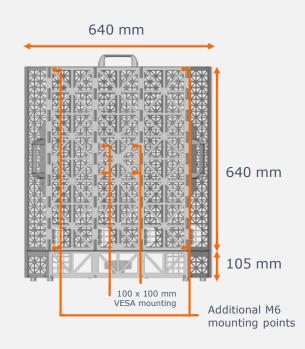
The CAM1K is the top-of-the-line product in the Sorama assortment of sound cameras. An ideal tool for each company with focus on optimized noise-performance of their products. The visual insights make it easy to interpret and explain causes of noise and vibration. We enable fast and efficient ways to improve sound

The benefits of the CAM1K are in its size. Far-field beam-forming already starts at 50 Hz and the larger microphone array gives a better resolution of sound-sources. Near-field acoustic holography is up to 30 times faster than other cameras, including our own CAM64. Sorama CAM1K is the ultimate tool for NVH-engineers working on OEM-products.

## Main specifications:

- Far Field beamforming: 50Hz and up with optimal conditions at 300Hz -15kHz
- Near Field Acoustic Holography: frequency range 25 Hz - 23.400 Hz
- 1024 microphones, 64 x 64 cm array size
- Integrated HD video camera







Physical Properties		
Size	640x785x130 mm	LxWxD
Weight	5.5 kg	
Connection	Ethernet and Power over	Eth. IEEE 1588V2 sync IEEE 802.3af-2003 PoE
Acoustic Properties		
# of microphone chann	iels 1024	Parallel sampling
Frequency range	1 Hz – 20 kHz	$\Delta f = 1 Hz$
Spatial resolution	20 mm	Inter sensor distance
Measurement area	640 x 640 mm	
Microphones		
Туре	MEMS	Embedded ADC with PDM
SNR (A-weighted, at 1	kHz) 63 dB per chann	el Max. 93 dB for device
Sensitivity	-26 dBFS +/- 1.5	5dB At 1 kHz, 94 dB SPL
Acoustic Overload Point	t 116 dB SPL	At 1 kHz, <10% THD
Measurement Feature	es	
Spectrum Analysis	SPL 1 Hz - 20 l	kHz dB/dB(A) SPL, $\Delta f = 1$ Hz
Spectrogram Analysis	0-10s+, 0-20 k	Hz Streaming + recording
Beamforming (far-field)	) 50 Hz – 20 kHz	* Streaming + recording
NAH (near-field)	1 Hz - 20 kHz	Stationary + transient
Minimum system requirements	Near-Field Acousti	c Holography Beamforming (streaming)
Operating system	Windows 7, 64 bits	Windows 7, 64 bits
Processor	Intel i5 (2014 gen) o	or comparable Intel i5 (2014 gen) or comparable
Memory	4 GB RAM	4 GB RAM
Graphics card	Integrated GPU	Integrated GPU
Screen resolution	1280 x 720 pixels	1280 x 720 pixels
Connections	1 x free ethernet por 3 dongle) Working in connection	
Disc space	Typical recording req	uires 500 MB

<sup>\*</sup> Dependent on external factors